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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/821,375	04/08/2004	Kyung Ku Kim	2080-3244	1606

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EXAMINER

FINEMAN, LEE A

ART UNIT PAPER NUMBER

2872

DATE MAILED: 07/20/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No. 10/821,375	Applicant(s) KIM, KYUNG KU	
	Examiner Joshua L. Pritchett <del>for the Examiner</del>	Art Unit 2872	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 05 May 2006.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1,3-6,8 and 16-33 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,3-6,8 and 16-33 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 08 April 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### **DETAILED ACTION**

This action is in response to Amendment filed May 5, 2006. Claims 1, 3-6 and 8 have been amended claims 2, 7 and 9-15 have been cancelled and claims 16-33 have been added as requested by the applicant.

#### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 5, 6, 8, 16, 17 and 20-33 are rejected under 35 U.S.C. 102(e) as being anticipated by Shimamura (US 6,808,773).

Regarding claim 1, Shimamura et al. disclose in fig. 5 a front filter of a plasma display panel, the front filter attached to a front surface of the plasma display panel (fig. 5) and formed of a plurality of thin films (20 a and b, 18, etc.), the front filter is formed on at least one thin film (20b) among the plurality of thin films and includes a frame adhesive (22 and 12c) for forming an active display area of the plasma display panel (fig. 5).

Regarding claim 5, Shimamura et al. further disclose a front filter of a plasma display panel (fig. 5) attached to an upper glass substrate (10) having a near infrared shielding layer (18), an electromagnetic shielding layer (14) and an antireflection layer (20a) comprising: a plurality of adhesives (12c-f and 22) formed on the upper glass substrate or between the near infrared shielding layer, the electromagnetic shielding layer and the antireflection layer (Fig. 5), wherein one of the plurality of adhesives is a frame adhesive having a black adhesive (22) for defining an active display area of the display panel (Fig. 5; column 9, lines 2-5).

Regarding claim 6, Shimamura et al. further disclose wherein the frame adhesive is composed of a transparent adhesive (12c) formed at an area that is overlapped with the active display area (fig. 5), and a black adhesive (22, in so far as the black frame layer must necessarily adhere to the substrate for the layers to bond together) formed at an area except the active display area (fig. 5).

Regarding claims 8 and 20, Shimamura et al. further disclose a fabrication method of a front filter of a plasma display panel comprising the steps of: preparing a base film (10); forming a black adhesive (22, in so far as the black frame layer must necessarily adhere to the substrate for the layers to bond together) at a nonactive display area positioned on the base film (Fig. 5); and forming a transparent adhesive (12c) at an active display area positioned on the base film (Fig. 5).

Regarding claim 16, Shimamura discloses the frame adhesive formed on the electromagnetic shielding layer (Fig. 5).

Regarding claim 17, Shimamura discloses the transparent adhesive overlapped the active display area (Fig. 5).

Art Unit: 2872

Regarding claims 21, 27 and 31, Shimamura discloses the nonactive display area is positioned on an outer of the active display area (Fig. 5).

Regarding claims 22, 23, 28, 29, 32 and 33, Shimamura discloses the adhesives formed by a pressing method (column 6, lines 60-65).

Regarding claim 30, Shimamura et al. further disclose wherein the step for fabricating the frame adhesive comprises the steps of: preparing a base film (10); forming the transparent adhesive (12c) on an entire surface of the base film (14); and forming the black adhesive (22) on the base film (14) except the active display area.

### *Claim Rejections - 35 USC § 103*

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 25 and 26 is rejected under 35 U.S.C. 103(a) as being unpatentable over Shimamura (US 6,808,773).

Shimamura et al. disclose the claimed invention except for wherein the steps for fabricating the frame adhesive include using screen masks. However, Shimamura et al. further teaches that screen masks are used to form very accurate, specific patterns as demonstrated by

Art Unit: 2872

using a screen mask to form the copper foil of the electromagnetic shielding layer shield (see column 7, lines 3-8). It would have been obvious to one of ordinary skill in the art at the time the invention was made to use screen masks to form the frame adhesive to provide very accurate, specific pattern shapes for the frame adhesive layers.

Claims 3, 4, 18 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shimamura et al. in view of Saito et al., US 6,469,440 B 1.

Shimamura et al. discloses the claimed invention except for the black adhesive being formed 'by mixing the transparent adhesive with a black material, wherein the black material is a carbon black of 0.05.about.50%, and wherein the black material is a black pigment or a black dye. Saito et al. teaches use of a black adhesive in a front filter of a plasma display panel, wherein the black adhesive being formed by mixing the transparent adhesive with a black material, wherein the black material is a carbon black or a black pigment or a black dye (column 16, lines 17-23). It would have been obvious to one of ordinary skill in the art at the time the invention was made to make the black adhesive from a transparent adhesive with a black material as suggested by Saito et al. to simplify manufacture and inventories by using the same materials (i.e. transparent adhesive) in both parts of the frame adhesive. Regarding claims 4 and 14, it would have been obvious to one having ordinary skill in the art at the time the invention was made to make the black material 0.05.about.50% of the mixture, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering an optimum value or working ranges involves only routine skill in the art. One would have been motivated to

Art Unit: 2872

make the black material 0.05 to about 50% of the mixture for the purpose of supplying the correct opacity to the frame. In re Aller, 220 F.2d 454, 456 105 USPQ 233, 235.

### *Response to Arguments*

Applicant's arguments filed May 5, 2006 have been fully considered but they are not persuasive.

Applicant argues Shimamura makes not mention of the use of different types of adhesives formed over the active area and the nonactive area and fails to describe a black adhesive at a nonactive display area. The claim only requires adhesives on an upper glass substrate. The claims do not require the adhesives appear solely on either an active or nonactive area. Further the claim states the black adhesive defines the active area, so based on the claim language the very definition of the active area depends on the location of the black adhesive. Therefore the black adhesive wherever it is present is necessarily on a nonactive area.

### *Conclusion*

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO**

Art Unit: 2872

MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joshua L. Pritchett whose telephone number is 571-272-2318. The examiner can normally be reached on Monday - Friday 7:00 - 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew A. Dunn can be reached on 571-272-2312. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



**DREW A. DUNN**  
**SUPERVISORY PATENT EXAMINER**

Joshua L Pritchett   
AU 2872